

invention provides isolated native sequence PRO865 polypeptide, which in one embodiment, includes an amino acid sequence comprising residues 1 to 468 of Figure 136 (SEQ ID NO:337). An additional embodiment of the present invention is directed to a PRO865 polypeptide comprising amino acids about 24 to 468 of Figure 136 (SEQ ID NO:337). Optionally, the PRO865 polypeptide is obtained or is obtainable by expressing the polypeptide encoded by the cDNA insert of the DNA53974-1401 vector deposited on April 14, 1998 as ATCC 209774.

In another embodiment, the invention provides an expressed sequence tag (EST) comprising the nucleotide sequence of Figure 137 (SEQ ID NO:338), herein designated as DNA37642.

51. PRO827

Applicants have identified a cDNA clone that encodes a novel polypeptide having homology to integrin proteins, wherein the polypeptide is designated in the present application as "PRO827".

In one embodiment, the invention provides an isolated nucleic acid molecule comprising DNA encoding a PRO827 polypeptide. In one aspect, the isolated nucleic acid comprises DNA encoding the PRO827 polypeptide having amino acid residues 1 to 124 of Figure 139 (SEQ ID NO:346), or is complementary to such encoding nucleic acid sequence, and remains stably bound to it under at least moderate, and optionally, under high stringency conditions. In other aspects, the isolated nucleic acid comprises DNA encoding the PRO827 polypeptide having amino acid residues about 23 to 124 of Figure 139 (SEQ ID NO:346), or is complementary to such encoding nucleic acid sequence, and remains stably bound to it under at least moderate, and optionally, under high stringency conditions. The isolated nucleic acid sequence may comprise the cDNA insert of the DNA57039-1402 vector deposited on April 14, 1998 as ATCC 209777 which includes the nucleotide sequence encoding PRO827.

In another embodiment, the invention provides isolated PRO827 polypeptide. In particular, the invention provides isolated native sequence PRO827 polypeptide, which in one embodiment, includes an amino acid sequence comprising residues 1 to 124 of Figure 139 (SEQ ID NO:346). An additional embodiment of the present invention is directed to a PRO827 polypeptide comprising amino acids about 23 to 124 of Figure 139 (SEQ ID NO:346). Optionally, the PRO827 polypeptide is obtained or is obtainable by expressing the polypeptide encoded by the cDNA insert of the DNA57039-1402 vector deposited on April 14, 1998 as ATCC 209777.

52. PRO1114

Applicants have identified a cDNA clone that encodes a novel polypeptide having homology to cytokine receptor family-4 proteins, wherein the polypeptide is designated in the present application as "PRO1114".

In one embodiment, the invention provides an isolated nucleic acid molecule comprising DNA encoding a PRO1114 polypeptide. In one aspect, the isolated nucleic acid comprises DNA encoding the PRO1114 polypeptide having amino acid residues 1 to 311 of Figure 142 (SEQ ID NO:352), or is complementary to such encoding nucleic acid sequence, and remains stably bound to it under at least moderate, and optionally, under high stringency conditions. In other aspects, the isolated nucleic acid comprises DNA encoding the PRO1114 polypeptide having amino acid residues about 30 to 311 of Figure 142 (SEQ ID NO:352) or amino acid 1 or

about 30 to X of Figure 142 (SEQ ID NO:352), where X is any amino acid from 225 to 234 of Figure 142 (SEQ ID NO:352), or is complementary to such encoding nucleic acid sequence, and remains stably bound to it under at least moderate, and optionally, under high stringency conditions. The isolated nucleic acid sequence may comprise the cDNA insert of the DNA57033-1403 vector deposited on May 27, 1998 as ATCC 209905 which includes the nucleotide sequence encoding PRO1114.

5 In another embodiment, the invention provides isolated PRO1114 polypeptide. In particular, the invention provides isolated native sequence PRO1114 polypeptide, which in one embodiment, includes an amino acid sequence comprising residues 1 to 311 of Figure 142 (SEQ ID NO:352). Additional embodiments of the present invention are directed to PRO1114 polypeptides comprising amino acids about 30 to 311 of Figure 142 (SEQ ID NO:352) or amino acid 1 or about 30 to X of Figure 142 (SEQ ID NO:352), where X is any amino
10 acid from 225 to 234 of Figure 142 (SEQ ID NO:352). Optionally, the PRO1114 polypeptide is obtained or is obtainable by expressing the polypeptide encoded by the cDNA insert of the DNA57033-1403 vector deposited on May 27, 1998 as ATCC 209905.

In another embodiment, the invention provides an expressed sequence tag (EST) designated herein as DNA48466 comprising the nucleotide sequence of Figure 143 (SEQ ID NO:353).

15 A cDNA clone (DNA57033-1403) has been identified that encodes a novel interferon receptor polypeptide, designated in the present application as "PRO1114 interferon receptor".

In one embodiment, the invention provides an isolated nucleic acid molecule comprising DNA encoding a PRO1114 interferon receptor polypeptide.

20 In one aspect, the isolated nucleic acid comprises DNA having at least about 80% sequence identity, preferably at least about 85% sequence identity, more preferably at least about 90% sequence identity, most preferably at least about 95% sequence identity to (a) a DNA molecule encoding a PRO1114 interferon receptor polypeptide having the sequence of amino acid residues from about 1 or about 30 to about 311, inclusive of Figure 142 (SEQ ID NO:352), or (b) the complement of the DNA molecule of (a).

25 In another aspect, the invention concerns an isolated nucleic acid molecule encoding a PRO1114 interferon receptor polypeptide comprising DNA hybridizing to the complement of the nucleic acid between about nucleotides 250 or about 337 and about 1182, inclusive, of Figure 141 (SEQ ID NO:351). Preferably, hybridization occurs under stringent hybridization and wash conditions.

30 In a further aspect, the invention concerns an isolated nucleic acid molecule comprising DNA having at least about 80% sequence identity, preferably at least about 85% sequence identity, more preferably at least about 90% sequence identity, most preferably at least about 95% sequence identity to (a) a DNA molecule encoding the same mature polypeptide encoded by the human protein cDNA in ATCC Deposit No. 209905 (DNA57033-1403) or (b) the complement of the nucleic acid molecule of (a). In a preferred embodiment, the nucleic acid comprises a DNA encoding the same mature polypeptide encoded by the human protein cDNA in ATCC Deposit No. 209905 (DNA57033-1403).

35 In still a further aspect, the invention concerns an isolated nucleic acid molecule comprising (a) DNA encoding a polypeptide having at least about 80% sequence identity, preferably at least about 85% sequence identity, more preferably at least about 90% sequence identity, most preferably at least about 95% sequence

identity to the sequence of amino acid residues 1 or about 30 to about 311, inclusive of Figure 142 (SEQ ID NO:352), or (b) the complement of the DNA of (a).

In a further aspect, the invention concerns an isolated nucleic acid molecule having at least 10 nucleotides and produced by hybridizing a test DNA molecule under stringent conditions with (a) a DNA molecule encoding a PRO1114 interferon receptor polypeptide having the sequence of amino acid residues from 1 or about 30 to about 311, inclusive of Figure 142 (SEQ ID NO:352), or (b) the complement of the DNA molecule of (a), and, if the DNA molecule has at least about an 80 % sequence identity, preferably at least about an 85 % sequence identity, more preferably at least about a 90 % sequence identity, most preferably at least about a 95 % sequence identity to (a) or (b), isolating the test DNA molecule.

In a specific aspect, the invention provides an isolated nucleic acid molecule comprising DNA encoding a PRO1114 interferon receptor polypeptide, with or without the N-terminal signal sequence and/or the initiating methionine, and its soluble, i.e., transmembrane domain deleted or inactivated variants, or is complementary to such encoding nucleic acid molecule. The signal peptide has been tentatively identified as extending from about amino acid position 1 to about amino acid position 29 in the sequence of Figure 142 (SEQ ID NO:352). The transmembrane domain has been tentatively identified as extending from about amino acid position 230 to about amino acid position 255 in the PRO1114 interferon receptor amino acid sequence (Figure 142, SEQ ID NO:352).

In another aspect, the invention concerns an isolated nucleic acid molecule comprising (a) DNA encoding a polypeptide scoring at least about 80 % positives, preferably at least about 85 % positives, more preferably at least about 90 % positives, most preferably at least about 95 % positives when compared with the amino acid sequence of residues 1 or about 30 to about 311, inclusive of Figure 142 (SEQ ID NO:352), or (b) the complement of the DNA of (a).

Another embodiment is directed to fragments of a PRO1114 interferon receptor polypeptide coding sequence that may find use as hybridization probes. Such nucleic acid fragments are from about 20 to about 80 nucleotides in length, preferably from about 20 to about 60 nucleotides in length, more preferably from about 20 to about 50 nucleotides in length and most preferably from about 20 to about 40 nucleotides in length and may be derived from the nucleotide sequence shown in Figure 141 (SEQ ID NO:351).

In another embodiment, the invention provides a vector comprising DNA encoding PRO1114 interferon receptor or its variants. The vector may comprise any of the isolated nucleic acid molecules hereinabove identified.

A host cell comprising such a vector is also provided. By way of example, the host cells may be CHO cells, *E. coli*, or yeast. A process for producing PRO1114 interferon receptor polypeptides is further provided and comprises culturing host cells under conditions suitable for expression of PRO1114 interferon receptor and recovering PRO1114 interferon receptor from the cell culture.

In another embodiment, the invention provides isolated PRO1114 interferon receptor polypeptide encoded by any of the isolated nucleic acid sequences hereinabove identified.

In a specific aspect, the invention provides isolated native sequence PRO1114 interferon receptor polypeptide, which in certain embodiments, includes an amino acid sequence comprising residues 1 or about 30